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Title *A Review of the Techniques for EM Performance Analysis of FSS Structures*

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Abstract

The techniques for the EM performance analysis of simple, complex, and multilayered frequency selective surfaces (FSS) structures are discussed in this report. Basic methods, full-wave analysis methods and hybrid methods are discussed in detail. The merits and shortcomings of each technique are included. It is found that the basic methods are best suitable for thin and simple FSS structures while full-wave analysis methods are suitable for arbitrary shaped thick FSS structures. Finally, It is observed that the hybrid techniques are powerful methods for the analysis of thin as well as thick, arbitrary shaped elements and multilayered FSS structures at all angles of incidence.